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### Patent Abstract

EPA 92-13 0476485 **Polyisobutylaminoalcohols, method of making them, and internal combustion engine fuels and lubricants containing these high molecular weighted aminoalcohols.**

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**INVENTOR(S)**- Oppenlaender, Knut, Dr. Otto-Dill-Strasse 23 W-6700 Ludwigshafen DE  
**INVENTOR(S)**- Gousetis, Charalampos, Dr. Carl-Bosch-Strasse 98 W-6700 Ludwigshafen DE  
**INVENTOR(S)**- Kaestner, Ralf, Dr. Londoner Ring 7 W-6700 Ludwigshafen DE  
**INVENTOR(S)**- Rieber, Norbert, Dr. Liebfrauenstrasse 1 c W-6800 Mannheim 51 DE  
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**INVENTOR(S)**- Thomas, Juergen, Dr. Merowinger Strasse 5 W-6701 Fussgoenheim DE

**APPLICANT(S)**- BASF Aktiengesellschaft (200000) Carl-Bosch-Strasse 38 W-6700 Ludwigshafen DE **DESG.**  
**COUNTRIES**- AT; DE; FR; GB; IT; NL; SE  
**PATENT APPLICATION NUMBER**- 91115261  
**DATE FILED**- 1991-09-10  
**PUBLICATION NUMBER**- 00476485/EP A1  
**PUBLICATION DATE**- 1992-03-25  
**PATENT PRIORITY INFO**- DE, 4030164, 1990-09-24  
**INTERNATIONAL PATENT CLASS**- C10L00122; C10M13354; C10M13358; C10M15704; C10M13352; C08F00832; C08F00830  
**PUBLICATION**- 1992-03-25, A1, Published application with search report  
**FILING LANGUAGE**- German  
**PROCEDURE LANGUAGE**- German  
**LANGUAGE**- German NDN- 050-0033-3287-1

Polyisobutylaminoalcohols, method for making them and internal

combustion engine fuels or lubricants containing small amounts of these compounds of the formulae Ia and Ib in which R denotes a polyisobutyl radical having a molecular weight (number average) of 500 to 5000 and in both formulae in each case one of the radicals X denotes an OH group and the other radical X denotes the group where the radicals R<sub>sup1</sub> can be identical or different and denote hydrogen, alkyl, hydroxyalkyl or aminoalkyl, which can also be substituted by further alkyl radicals carrying hydroxyl or amino groups, or in which the two radicals R<sub>sup1</sub> can form a non-aromatic ring.

**DESIGNATED COUNTRY(S)**- AT; DE; FR; GB; IT; NL; SE

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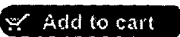
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
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Patent Abstract

EPB 94-18 0476485 **Polyisobutylaminoalcohols and internal combustion engine fuels containing these high molecular weight amino alcohols.**

**INVENTOR(S)**- Mohr, Juergen, Dr. Hochgewanne 48 W-6718 Gruenstadt DE  
**INVENTOR(S)**- Oppenlaender, Knut, Dr. Otto-Dill-Strasse 23 W-6700 Ludwigshafen DE  
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**PATENT ASSIGNEE(S)**- BASF Aktiengesellschaft (200000) Carl-Bosch-Strasse 38 D-67063 Ludwigshafen DE **DESG.**  
**COUNTRIES**- AT; DE; FR; GB; IT; NL; SE  
**PATENT NUMBER**- 00476485/EP B1  
**PATENT APPLICATION NUMBER**- 91115261  
**DATE FILED**- 1991-09-10  
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**PATENT PRIORITY INFO**- DE, 4030164, 1990-09-24  
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**PUBLICATION**- 1992-03-25, A1, Published application with search report; 1994-05-04, B1, Publication of granted patent  
**FILING LANGUAGE**- German  
**PROCEDURE LANGUAGE**- German  
**LANGUAGE**- German NDN- 069-0309-9349-2  
  
**EXEMPLARY CLAIMS**- A fuel for internal combustion engines, containing small amounts of compounds of the formulae Ia and Ib where R is polyisobutyl having a number average molecular

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weight of 500 to 5,000 and in each of the two formulae one of the radicals X is OH and the other is the group where the radicals R(sup)1 may be identical or different and are each hydrogen, alkyl, hydroxyalkyl or aminoalkyl which may be substituted by further hydroxyl- or amino-carrying alkyl radicals, or the two radicals R(sup)1 may form a nonaromatic ring. A motor fuel as claimed in claim 1, wherein one radical R(sup)1 is hydrogen and the other is an ethyleneaminoethyleneamine radical. A motor fuel as claimed in claim 1, which contains from 50 to 5,000 ppm of the compounds of the formula I. A motor fuel as claimed in claim 1, which contains, in addition to the compounds of the formula I, a detergent of the formula where R has the abovementioned meaning and R(sup)2 is hydrogen or alkyl or aminoalkyl which may be substituted by further amino-carrying alkyl radicals. A polyisobutylaminoalcohol of the general formula Ia or Ib where R is polyisobutyl having a number average molecular weight of 500 to 5,000 and in each of the two formulae one of the radicals X is OH and the other is a group where one radical R(sup)1 is hydrogen and the other is an ethyleneaminoethyleneamine radical.

**DESIGNATED COUNTRY(S)-** AT; DE; FR; GB; IT; NL; SE

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